Anheuser Busch, LLC
Anheuser Busch, LLC -Jacksonville Brewery

Facility ID No. 0310006
Duval County

Title V Air Operation Permit Renewal

Permit No. 0310006-016-AV
(Renewal of Title V Air Operation Permit No. 0310006-014-AV)

Permitting Authority:

State of Florida
Department of Environmental Protection
Northeast District
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256-7590

Telephone: (904) 256-1700
Fax: (904) 256-1587

Compliance Authority:

State of Florida
Department of Environmental Protection
Northeast District
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256-7590

Telephone: (904) 256-1700
Fax: (904) 256-1590

Title V Air Operation Permit Renewal
Permit No. 0310006-016-AV

Table of Contents

Section **Page Number**

Placard Page 1

I. Facility Information.
A. Facility Description. 2
B. Summary of Emissions Units. 2
C. Applicable Regulations. 2

II. Facility-wide Conditions. 3

III. Emissions Units and Conditions.
A. Emission Unit 001 – Boiler No. 1 7
Emission Unit 002 – Boiler No. 2 7
Emission Unit 004 – Boiler No. 4. 7
B. Emission Unit 011 – Grain Building Dust Collection System I 10
Emission Unit 012 – Grain Building Dust Collection System II 10
C. Emission Unit 013 – Grain Unloading II 13
Emission Unit 017 – Grain Unloading I 13
D. Emission Unit 027 – Combustion Turbine 16
E. Emission Unit 028 – Duct Burner & Heat Recovery Boiler 20
F. Emission Unit 031 – Biogas Flare 24
Emission Unit 032 – Backup Biogas Flare..... 24
G. Emission Unit 033 – H_2S Scrubber..... 26
H. Emission Unit 035 – Filter Media Storage Silos..... 28
I. Emission Unit 038 – Four (4) Emergency Stationary RICE 31

IV. Appendices. ..... Separate Document
Appendix A, Abbreviations, Acronyms, Citations and Identification Numbers
Appendix BACT, Small Boiler BACT Determination
Appendix I, List of Insignificant Emissions Units and/or Activities.
Appendix O&M, Operation and Maintenance Plan
Appendix NSPS, Subpart A – General Provisions
Appendix NSPS, Subpart GG – Standards of Performance for Stationary Gas Turbines
Appendix NESHAP, Subpart A – General Provisions.
Appendix NESHAP, Subpart ZZZZ – Stationary RICE
Appendix RR, Facility-wide Reporting Requirements.
Appendix TR, Facility-wide Testing Requirements.
Appendix TT, Turbine Capacity vs. Temperature
Appendix TV, Title V General Conditions.
Appendix U, List of Unregulated Emissions Units and/or Activities.

Referenced Attachments.
Figure 1, Summary Report – Gaseous and Opacity Excess Emission and Monitoring System Performance
Table H, Permit History.
Table 1, Summary of Air Pollutant Standards and Terms.
Table 2, Compliance Requirements.

Florida Department of Environmental Protection

Northeast District
8800 Baymeadows Way West, Suite 100
Jacksonville, Florida 32256

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Noah Valenstein
Secretary

PERMITTEE:
Anheuser Busch, LLC
111 Busch Drive
Jacksonville, Florida 32218

Permit No. 0310006-016-AV
Anheuser Busch, LLC -Jacksonville Brewery
Facility ID No. 0310006
Title V Air Operation Permit Renewal

The purpose of this permit is to renew the Title V air operation permit for the above referenced facility. The existing Anheuser Busch, LLC -Jacksonville Brewery is located in Duval County at 111 Busch Drive, Jacksonville. UTM Coordinates are: Zone 17, 438.00 km East and 3367.04 km North. Latitude is: 30° 26' 48" North; and, Longitude is: 81° 38' 49" West.

The Title V air operation permit is issued under the provisions of Chapter 403, Florida Statutes (F.S.), and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-210, and 62-213. The above named permittee is hereby authorized to operate the facility in accordance with the terms and conditions of this permit.

0310006-016-AV Effective Date: April 10, 2018
Renewal Application Due Date: August 28, 2022
Expiration Date: April 10, 2023

Thomas G. Kallemeyn

Permitting Program Administrator

TGK/sjb

Subsection A. Facility Description.

This facility produces beer from barley malt, cereal grains, water, hops, and yeast. The brewery is divided into seven (7) major areas: grains handling, brewing, fermenting, finishing, beer packaging and shipping, utilities, and wastewater pretreatment.

Steam for the brewery is provided by three, natural gas and biogas fired 97 MMBtu/hour boilers. Particulate emissions from grain handling operations are controlled by the grain building dust collection systems I and II (Buhler MIAG AFSA 64-8 Type A-25 Bag Filters). Two pneumatic grain unloading operations at the facility (Grain Unloading I and II) are controlled by Buhler Model RPPR-41/6 Bag Filter dust control systems. The facility has one combustion turbine and an associated duct burner and heat recovery boiler. The turbine and duct burner are permitted to burn natural gas and biogas. Two biogas flares control excess biogas in the system during periods of increased biogas production or when mechanical problems prevent the biogas from being fired in other authorized emissions units. The waste water anaerobic pretreatment system is equipped with an H_2S scrubber to control odorous emissions. Two storage silos equipped with MAC Model 72AVS25II Dust collectors store Diatomaceous Earth and Perlite for use as filter media in the brewery's wastewater treatment facility. The facility has four emergency stationary RICE. Two of the engines are for emergency electrical generation and two of engines are for the operation of emergency fire pumps.

Subsection B. Summary of Emissions Units.

EU No.	Brief Description
Regulated Emissions Units	
001	Boiler No. 1
002	Boiler No. 2
004	Boiler No. 4
011	Grain Building Dust Collection System I
012	Grain Building Dust Collection System II
013	Grain Unloading II
017	Grain Unloading I
027	Combustion Turbine
028	Duct Burner & Heat Recovery Boiler
031	Biogas Flare
032	Backup Biogas Flare
033	H_2S Scrubber
035	Filter Media Storage Silos
038	Four (4) Emergency Stationary RICE
Unregulated Emissions Units and Activities (see Appendix U, List of Unregulated Emissions Units and/or Activities)	
037	Non-regulated VOC emissions sources at the Jacksonville Brewery

Also included in this permit are miscellaneous insignificant emissions units and/or activities (see Appendix I, List of Insignificant Emissions Units and/or Activities).

Subsection C. Applicable Regulations.

Based on the Title V air operation permit renewal application received November 28, 2017, this facility is not a major source of hazardous air pollutants (HAP). The existing facility is a prevention of significant deterioration (PSD) major source of air pollutants in accordance with Rule 62-212.400, F.A.C. A summary of applicable regulations is shown in the following table.

Regulation	**EU No(s).**
Federal Rule Citations	
40 CFR 60, Subpart A, General Provisions	027
40 CFR 60, Subpart GG, Standards of Performance for Stationary Gas Turbines	027
40 CFR 63, Subpart A, General Provisions	038
40 CFR 63, Subpart ZZZZ	038
State Rule Citations	
State Rule Citations 62-210, F.A.C; 62-212 F.A.C. 62-213, F.A.C.; 62-296, F.A.C.; 62-297, F.A.C.	001-038

SECTION II. FACILITY-WIDE CONDITIONS.

The following conditions apply facility-wide to all emission units and activities:

FW1. The facility shall be subject to the City of Jacksonville Ordinance Code, Title X, Chapter 360 [Environmental Regulation], Chapter 362 [Air and Water Pollution], Chapter 376 [Odor Control], and JEPB Rule 1 [Final Rules with Respect to Organization, Procedure, and Practice].

FW2. The facility shall be subject to JEPB Rule 2, Parts I through VII, and Parts IX through XIV.

FW3. Appendices. The permittee shall comply with all documents identified in Section IV, Appendices, listed in the Table of Contents. Each document is an enforceable part of this permit unless otherwise indicated. [Rule 62-213.440, F.A.C. and Rule 2.501, JEPB]

Emissions and Controls

FW4. **Not federally Enforceable.** Objectionable Odor Prohibited. No person shall cause, suffer, allow or permit the discharge of air pollutants, which cause or contribute to an objectionable odor. An "objectionable odor" means any odor present in the outdoor atmosphere which by itself or in combination with other odors, is or may be harmful or injurious to human health or welfare, which unreasonably interferes with the comfortable use and enjoyment of life or property, or which creates a nuisance. [Rule 62-296.320(2) and 62-210.200(Definitions), F.A.C.]

FW5. General Volatile Organic Compounds (VOC) Emissions or Organic Solvents (OS) Emissions. The permittee shall allow no person to store, pump, handle, process, load, unload or use in any process or installation, volatile organic compounds or organic solvents without applying known and existing vapor emission control devices or systems deemed-necessary and ordered by the Department. [Rule 62-296.320(1), F.A.C.]

{Permitting Note: Nothing is deemed necessary and ordered at this time.}

FW6. General Visible Emissions. No person shall cause, let, permit, suffer or allow to be discharged into the atmosphere the emissions of air pollutants from any activity equal to or greater than 20% opacity. This regulation does not impose a specific testing requirement. [Rule 62-296.320(4)(b), F.A.C.]

FW7. Unconfined Particulate Matter. No person shall cause, let, permit, suffer or allow the emissions of unconfined particulate matter from any activity, including vehicular movement; transportation of materials; construction; alteration; demolition or wrecking; or industrially related activities such as loading, unloading, storing or handling; without taking reasonable precautions to prevent such emissions. Reasonable precautions to prevent emissions of unconfined particulate matter at this facility include:

a. Paving and maintenance of roads, parking areas and yards.
b. Application of water or chemicals to control emissions from such activities as demolition of buildings, grading roads, construction, and land clearing.
c. Application of asphalt, water, oil, chemicals or other dust suppressants to unpaved roads, yards, open stock piles and similar activities.
d. Removal of particulate matter from roads and other paved areas under the control of the owner or operator of the facility to prevent re-entrainment, and from buildings or work areas to prevent particulate from becoming airborne.
e. Landscaping or planting of vegetation.
f. Use of hoods, fans, filters and similar equipment to contain, capture and/or vent particulate matter.
g. Confining abrasive blasting where possible.
h. Enclosure or covering of conveying systems.

[Rule 62-296.320(4)(c), F.A.C.; and, proposed by applicant in Title V air operation permit renewal application received November 28, 2017.]

Reports and Fees

See Appendix RR, Facility-wide Reporting Requirements for additional details.

FW8. Electronic Annual Operating Report and Title V Annual Emissions Fees. The information required by the Annual Operating Report for Air Pollutant Emitting Facility [Including Title V Source Emissions Fee Calculation] (DEP Form No. 62-210.900(5)) shall be submitted by April 1 of each year, for the previous calendar year, to the Department of Environmental Protection's (DEP) Division of Air Resource Management. Each Title V source shall submit the annual operating report using the DEP's Electronic Annual Operating Report (EAOR) software, unless the Title V source claims a technical or financial hardship by submitting DEP Form No. 62-210.900(5) to the DEP Division of Air Resource Management instead of using the reporting software. Emissions shall be computed in accordance with the provisions of subsection 62-210.370(2), F.A.C. Each Title V source must pay between January 15 and April 1 of each year an annual emissions fee in an amount determined as set forth in subsection 62-213.205(1), F.A.C. The annual fee shall only apply to those regulated pollutants, except carbon monoxide and greenhouse gases, for which an allowable numeric emission-limiting standard is specified in the source's most recent construction permit or operation permit. Upon completing the required EAOR entries, the EAOR Title V Fee Invoice can be printed by the source showing which of the reported emissions are subject to the fee and the total Title V Annual Emissions Fee that is due. The submission of the annual Title V emissions fee payment is also due (postmarked) by April 1st of each year. A copy of the system-generated EAOR Title V Annual Emissions Fee Invoice and the indicated total fee shall be submitted to: **Major Air Pollution Source Annual Emissions Fee, Post Office Box 3070, Tallahassee, Florida 32315-3070.** Additional information is available by accessing the Title V Annual Emissions Fee On-line Information Center at the following Internet web site: http://www.dep.state.fl.us/air/emission/tvfee.htm. [Rules 62-210.370(3), 62-210.900 & 62-213.205, F.A.C.; and, §403.0872(11), Florida Statutes (2013)]

{Permitting Note: Resources to help you complete your AOR are available on the electronic AOR (EAOR) website at: http://www.dep.state.fl.us/air/emission/eaor. If you have questions or need assistance after reviewing the information posted on the EAOR website, please contact the Department by phone at (850) 717-9000 or email at eaor@dep.state.fl.us.}

{Permitting Note: The Title V Annual Emissions Fee form (DEP Form No. 62-213.900(1)) has been repealed. ***A separate Annual Emissions Fee form is no longer required to be submitted by March 1st each year.****}*

FW9. Annual Statement of Compliance. The permittee shall submit an annual statement of compliance to the compliance authority at the address shown on the cover of this permit and to the US. EPA at the address shown below within 60 days after the end of each calendar year during which the Title V air operation permit was effective. (See also Appendix RR, Conditions RR1 and RR7.) [Rules 62-213.440(3)(a)2. & 3. and (b), F.A.C.]

U.S. Environmental Protection Agency, Region 4
Atlanta Federal Center
61 Forsyth Street, SW
Atlanta, Georgia 30303
Attn: Air Enforcement Branch

FW10. Prevention of Accidental Releases (Section 112(r) of CAA).

a. As required by Section 112(r)(7)(B)(iii) of the CAA and 40 CFR 68, the owner or operator shall submit an updated Risk Management Plan (RMP) to the Chemical Emergency Preparedness and Prevention Office (CEPPO) RMP Reporting Center. (See paragraph e., below.)

b. As required under Section 252.941(1)(c), F.S., the owner or operator shall report to the appropriate representative of the Division of Emergency Management, as established by department rule, within one working day of discovery of an accidental release of a regulated substance from the stationary source, if

the owner or operator is required to report the release to the United States Environmental Protection Agency under Section 112(r)(6) of the CAA.

c. The owner or operator shall submit the required annual registration fee to the Division of Emergency Management on or before April 1, in accordance with Part IV, Chapter 252, F.S., and Rule 27P-21, F.A.C.

d. Any required written reports, notifications, certifications, and data required to be sent to the Division of Emergency Management, should be sent to: Division of Emergency Management, 2555 Shumard Oak Boulevard, Tallahassee, FL 32399-2100, Telephone: (850) 413-9970, Fax: (850) 488-1739.

e. Any Risk Management Plans, original submittals, revisions, or updates to submittals, should be sent electronically through EPA's Central Data Exchange system at the following address: https://cdx.epa.gov. Information on electronically submitting risk management plans using the Central Data Exchange system is available at: http://www2.epa.gov/rmp. The RMP Reporting Center can be contacted at: RMP Reporting Center, Post Office Box 10162, Fairfax, VA 22038, Telephone: (703) 227-7650.

f. Any required reports to be sent to the National Response Center, should be sent to: National Response Center, EPA Office of Solid Waste and Emergency Response, 1200 Pennsylvania Avenue Northwest, Mail Code: USEPA (5101T), Washington, DC 20460, Telephone: (800) 424-8802.

g. Send the required annual registration fee using approved forms made payable to: Cashier, Division of Emergency Management, State Emergency Response Commission, 2555 Shumard Oak Boulevard, Tallahassee, FL 32399-2149

[Part IV, Chapter 252, F.S.; and, Rule 27P-21, F.A.C.]

FW11. Semi-Annual Monitoring Reports. The permittee shall monitor compliance with the terms and conditions of this permit and shall submit reports of any deviations from the requirements of these conditions at least every six (6) months. All instances of deviations from permit requirements must be clearly identified in such reports, including reference to the specific requirement and the duration of such deviation. All reports shall be accompanied by a certification by a responsible official, pursuant to subsection 62-213.420(4), F.A.C. (See also Conditions RR2. – RR4. of Appendix RR, Facility-wide Reporting Requirements, for additional reporting requirements related to deviations.) [Rule 62-213.440(1)(b)3.a., F.A.C.]

{Permitting Note: EPA has clarified that, pursuant to 40 CFR 70.6(a)(3), the word "monitoring" is used in a broad sense and means monitoring (i.e., paying attention to) the compliance of the source with all emissions limitations, standards, and work practices specified in the permit.}

Other Requirements

FW12. Maximum allowable facility wide emissions of Hazardous Air Pollutants (HAP) are restricted to less than 10 TPY for any single HAP and to less than 25 TPY for total HAP(s). Tons per year shall be designated as any 12 consecutive month period.

[Avoid Major Source Classification for HAPs and Title V Air Operating Permit No. 0310006-014-AV]

The specific conditions in this section apply to the following emissions units:

EU No.	Brief Description
001	Boiler No. 1
002	Boiler No. 2
004	Boiler No. 4

Boilers No. 1, 2 and 4 are each 97 Million British Thermal Units (MMBtu) per hour B&W Boilers providing steam for the brewery fired with natural gas and/or biogas (generated by the anaerobic pretreatment facility) only.

{Permitting Note: These emission units are regulated under Rule 62-210 F.A.C., Rule 62-213 F.A.C., Rule 62-296.406 F.A.C. and Rule 62-297 F.A.C.}

Essential Potential to Emit (PTE) Parameters

A.1. Permitted Capacity. The maximum allowable heat input rate is as follows:

a. 97 MMBtu per hour while firing natural gas.

b. 40 MMBtu per hour of biogas for Boilers 1, 2, and 4 combined while firing in combination with natural gas.

[Permit Nos. 0310006-006-AC and AC16-119130; Rule 62-212.400, F.A.C., and Rule 2.401, JEPB]

A.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(3), F.A.C.]

A.3. Methods of Operation.

Fuels. The fuels that are allowed to be burned in these units are:

(1) Natural gas,

(2) Biogas (generated by the anaerobic pretreatment facility).

[Rule 62-213.410, F.A.C. and Applicant's request in Title V permit renewal application received November 28, 2017]

A.4. Maximum Natural Gas Usage. The natural gas usage for Boiler No. 1 shall not exceed 95,500 cubic feet per hour and 836.58 x 10^6 cubic feet per year. [Permit Nos. 0310006-006-AC and AC16-119130; Rule 62-212.400, F.A.C., and Rule 2.401, JEPB]

A.5. Maximum Biogas Usage. The maximum biogas usage for Boilers Nos. 1, 2, and 4 shall not exceed 57,389 cubic feet per hour. [Permit No. 0310006-006-AC; Rule 62-212.400, F.A.C., and Rule 2.401, JEPB]

A.6. Biogas Production. The maximum production and burning of biogas for the facility shall not exceed 400 x 10^6 cubic feet per year. [Permit No. 0310006-006-AC; Rule 62-212.400, F.A.C., and Rule 2.401, JEPB]

A.7. Hours of Operation. These emissions units may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C., Permit No. 0310006-006-AC, and Rule 2.301, JEPB]

Emission Limitations and Standards

{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

Unless otherwise specified, the averaging times for **Specific Conditions A.8-A.10.** are based on the specified averaging time of the applicable test method.

A.8. Sulfur Dioxide (SO_2) and Particulate Matter (PM) Emissions. SO_2 and PM emissions shall be controlled in accordance with the Best Available Control Technology (BACT) Determination. [Permit Nos. 0310006-006-AC and AC16-119130; BACT Determination dated January 2, 2018, Rules 62-296.406(2) and (3), F.A.C., and Rule 2.1101, JEPB],

A.9. The maximum allowable emissions shall be limited as follows:

Pollutant	lbs/hr	tons/yr	Total (Three Boilers) tons/yr	Other lbs/10^6 Btu
PM (Natural Gas) (Biogas)	 0.50 1.00	 2.19 1.10	 6.57 1.10	
SO_2 (Natural Gas) (Biogas)	 0.10 73.70	 0.44 37.20	 1.32 37.20	
NO_x (Natural Gas) (Biogas)	 24.30 18.40	 106.43 20.80	 319.29 20.80	0.4 0.25
CO (Natural Gas) (Biogas)	 8.02 4.90	 35.14 16.80	 105.42 16.80	
VOC (Natural Gas) (Biogas)	 0.30 1.00	 1.31 1.10	 3.93 1.10	

[Permit Nos. 0310006-006-AC and AC16-119130; PSD Avoidance; and Rule 2.1401, JEPB; Permit No. AC16-39951 for PM and NOx]

A.10. Visible emissions (VE). VE for each emissions unit shall not exceed 20 percent opacity except that VE not shall not exceed 27 percent in any one-hour period. The required minimum period of observation for a visible emissions test shall be 30 minutes. [Rule 62-296.406(1), F.A.C., Rule 62-297.310(5)(b), F.A.C. and 2.1101, JEPB]

Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

A.11. Excess Emissions Allowed- Startup and Shutdown. Excess emissions resulting from startup or shutdown shall be permitted provided that best operational practices to minimize emissions are adhered to and the duration of excess emissions shall be minimized. [Rule 62-210.700(2), F.A.C. and Rule 2.301 JEPB]

A.12. Excess Emissions Prohibited. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(2), F.A.C. and Rule 2.301 JEPB]

{Permitting note: After May 22, 2018, subsections 62-210.700(1) and (2), F.A.C. shall not apply to emission limits in Chapter 62-296, F.A.C., that have been or that become incorporated into the State Implementation Plan for the State of Florida, identified in 40 C.F.R. §52.520; and unit-specific emission limits that have been or that become incorporated into the State Implementation Plan for the State of Florida, identified in 40 C.F.R. §52.520.}

Test Methods and Procedures

{Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

A.13. Test Methods. When required, tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5B	Method for Determining Particulate Matter Emissions (All PM is assumed to be PM_{10}.)
6	Determination of Sulfur Dioxide Emissions from Stationary Sources
7 or 7E	Determination of Nitrogen Oxide Emissions from Stationary Sources
9	Visual Determination of the Opacity of Emissions from Stationary Sources
10	Determination of Carbon Monoxide Emissions from Stationary Sources {Note: The method shall be based on a continuous sampling train.}
25A	Method for Determining Gaseous Organic Concentrations (Flame Ionization)

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rule 62-204.800, F.A.C. and Permit Nos. 0310006-006-AC and AC16-119130]

A.14. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

A.15. Compliance Tests Prior To Renewal. Except as provided in subparagraph 62-297.310(8)(b)3., F.A.C. (see condition **TR7.**b.(3) in Appendix TR – Facility-wide Testing Requirements), compliance tests shall be performed for visible emissions prior to obtaining a renewed operation permit to demonstrate compliance with the emission limits in Specific Condition **A.10.** [Rules 62-210.300(2)(a) and 62-297.310(8)(b), F.A.C.]

{Permitting Note: Tests which are only required once during the term of a permit prior to obtaining a renewed permit should be performed roughly five years from the previous test.}

Recordkeeping and Reporting Requirements

A.16. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

A.17. Record Keeping. Monthly records shall be maintained for each boiler for the following:

a) Cubic feet of natural gas fired

b) Cubic feet of biogas fired

Records shall be maintained for a minimum of five (5) years and made available to the Compliance Authority upon request. [Rule 62-213.440(1)(b), F.A.C., and Rule 2.501, JEPB]

The specific conditions in this section apply to the following emissions units:

EU No.	Brief Description
011	Grain Building Dust Collection System I
012	Grain Building Dust Collection System II

EU 011 and EU 012 are the dust collection systems for the Grains Building. The control devices for EU 011 and EU 012 is a Buhler MIAG AFSA 64-8 Type A-25 Bag Filter.

{Permitting Note: These emission units are regulated under Rule 62-210 F.A.C., Rule 62-213 F.A.C., Rule 62-296.700 F.A.C. and Rule 62-297 F.A.C.}

Essential Potential to Emit (PTE) Parameters

B.1. Permitted Capacity. The maximum allowable process rate for each emissions unit is as follows:

Unit No.	Process Rate (lbs/hour)	Nominal Volumetric Flow (cubic feet per minute)
011	60,000	6,700
012	80,000	6,700

[Rules 62-4.160(2), 62-204.800, 62-210.200(PTE), and Rule 2.301, JEPB]

B.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(3), F.A.C. and Rule 2.1201, JEPB]

B.3. Hours of Operation. These emissions units may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C.; and Rule 2.301, JEPB]

Emission Limitations and Standards

{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

Unless otherwise specified, the averaging times for **Specific Conditions B.5-B.6** are based on the specified averaging time of the applicable test method.

B.4. Reasonably Available Control Technology (RACT) requirements including **Specific RACT Emission Limiting Standards for Stationary Emission Units** [Rule 62-296.700(3), F.A.C. and Rule 2.1101, JEPB]; **Maximum Allowable Emission Rates** [Rule 62-296.700(4), F.A.C. and Rule 2.1101, JEPB]; **Circumvention** [Rule 62-296.700(5), F.A.C. and Rule 2.1101, JEPB], and **Operation and Maintenance Plan** [Rule 62-296.700(6), F.A.C. and Rule 2.1101, JEPB] shall apply to each emissions unit.

B.5. Visible Emissions. Visible emissions from each emissions unit shall not exceed 5 percent opacity. The required minimum period of observation for a visible emissions test shall be 30 minutes except that for batch, cyclical processes, or other operations that are typically completed within less than the minimum observation period. [Rule 62-296.711(2)(a) and 62-297.310(5)(b) F.A.C.; and Rule 2.1101, JEPB]

B.6. PM Emissions. Particulate matter (PM) emissions from each emissions unit shall not exceed 0.03 grains per dry standard cubic foot. 1.72 pounds per hour, and 7.53 tons per year. [Rule 62-296.711(2)(b) and Rule 2.1101, JEPB]

Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

B.7. Excess Emissions Allowed- Startup, Shutdown, Malfunction. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted provided that (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C. and Rule 2.301, JEPB]

B.8. Excess Emissions Prohibited. Excess emissions that are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(1), F.A.C. and Rule 2.301, JEPB]

{Permitting note: After May 22, 2018, subsections 62-210.700(1) and (2), F.A.C. shall not apply to emission limits in Chapter 62-296, F.A.C., that have been or that become incorporated into the State Implementation Plan for the State of Florida, identified in 40 C.F.R. §52.520; and unit-specific emission limits that have been or that become incorporated into the State Implementation Plan for the State of Florida, identified in 40 C.F.R. §52.520.}

Test Methods and Procedures

{Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

B.9. Test Methods. When required, tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Method for Determining Particulate Matter Emissions (All PM is assumed to be PM_{10}.)
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rule 62-204.800, F.A.C.]

B.10. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

B.11. Compliance Tests Required. Testing for demonstration of compliance with **Specific Condition B.6**, upon request, shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter. [Rule 62-297.310(4), F.A.C., and Rule 2.1201, JEPB]

B.12. Compliance Tests Prior To Renewal. Except as provided in subparagraph 62-297.310(8)(b)3., F.A.C. (see condition **TR7.b.(3)** in Appendix TR – Facility-wide Testing Requirements) compliance tests shall be performed for each Emissions Unit for Visible Emissions prior to obtaining a renewed operation permit to demonstrate compliance with the emission limits in **Specific Condition B.5** [Rules 62-210.300(2)(a) and 62-297.310(8)(b), F.A.C., Rule 2.301, JEPB and Rule 2.1201, JEPB]

{Permitting Note: Tests which are only required once during the term of a permit prior to obtaining a renewed permit should be performed roughly five years from the previous test.}

Recordkeeping and Reporting Requirements

B.13. Operation and Maintenance Plan. An Operation and Maintenance Plan for each emissions unit shall be attached to and shall be part of this permit. All activities shall be performed as scheduled and recorded. Data shall be made available to the Permitting Authority upon request. Records shall be maintained on file for a minimum period of five (5) years. [Rule 62-296.700(6), F.A.C., and Rule 2.1101, JEPB]

B.14. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C. and Rule 2.501, JEPB]

The specific conditions in this section apply to the following emissions units:

EU No.	Brief Description
013	Grain Unloading II
017	Grain Unloading I

Grain Unloading I and II consists of the pneumatic grain unloading system for transferring grain from railcars to storage bins. Grain Unloading I (EU 017) is controlled by Carter Day Model 24RJ60 Dust Collector. Grain Unloading II is controlled by Buhler Model RPPR-41/6 Bag Filter.

{Permitting Note: These emission units are regulated under Rule 62-210 F.A.C., Rule 62-213 F.A.C., Rule 62-296.700 F.A.C. and Rule 62-297 F.A.C.}

Essential Potential to Emit (PTE) Parameters

C.1. Permitted Capacity. The maximum allowable process rate is as follows:

Unit No.	Process Rate (lbs/hr)	Nominal Volumetric Flow (cfm)
013	80,000	2,600
017	60,000	2,300

[Rules 62-4.160(2), 62-204.800, 62-210.200(PTE), Permit No. 0310006-008-AC and Rule 2.301, JEPB]

C.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(3), F.A.C.]

C.3. Hours of Operation. These emissions units may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C.; Permit No. 0310006-008-AC and Rule 2.301, JEPB]

Emission Limitations and Standards

{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

Unless otherwise specified, the averaging times for Specific Conditions **C.5.-C.6.** are based on the specified averaging time of the applicable test method.

C.4. Reasonably Available Control Technology (RACT) requirements including **Specific RACT Emission Limiting Standards for Stationary Emission Units** [Rule 62-296.700(3), F.A.C., and Rule 2.1101, JEPB]; **Maximum Allowable Emission Rates** [Rule 62-296.700(4), F.A.C., and Rule 2.1101, JEPB]; **Circumvention** [Rule 62-296.700(5), F.A.C., and Rule 2.1101, JEPB], and **Operation and Maintenance Plan** [Rule 62-296.700(6), F.A.C., and Rule 2.1101, JEPB] shall apply to each emissions unit.

C.5. Visible Emissions. Visible emissions from each emissions unit shall not exceed 5 percent opacity. The required minimum period of observation for a visible emissions test shall be 30 minutes except that for batch, cyclical processes, or other operations that are typically completed within less than the minimum observation period. [Rule 62-296.711(2)(a) and 62-297.310(5)(b) F.A.C.; and Rule 2.1101 and 2.1201, JEPB, Permit No. 0310006-008-AC]

C.6. PM Emissions - EU 013. Particulate matter (PM) emissions from EU 013 shall not exceed 0.03 grains per dry standard cubic feet, 0.67 pounds per hour and 2.93 tons per year. [Rule 62-296.711(2)(b) ; and Rule 2.1101, JEPB, Permit No. 0310006-008-AC]

C.7. PM Emissions - EU 017. Particulate matter (PM) emissions from EU 017 shall not exceed 0.03 grains per dry standard cubic feet, 0.59 pounds per hour and 2.58 tons per year. [Rule 62-296.711(2).; and Rule 2.1101, JEPB, Permit No. 0310006-008-AC]

Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

C.8. Excess Emissions Allowed- Startup, Shutdown, Malfunction. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted provided that (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C. and Rule 2.301, JEPB]

C.9. Excess Emissions Prohibited. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(1), F.A.C.]

{Permitting note: After May 22, 2018, subsections 62-210.700(1) and (2), F.A.C. shall not apply to emission limits in Chapter 62-296, F.A.C., that have been or that become incorporated into the State Implementation Plan for the State of Florida, identified in 40 C.F.R. §52.520; and unit-specific emission limits that have been or that become incorporated into the State Implementation Plan for the State of Florida, identified in 40 C.F.R. §52.520.}

Test Methods and Procedures

{Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

C.10. Test Methods. When required, tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Method for Determining Particulate Matter Emissions (All PM is assumed to be PM_{10}.)
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rule 62-204.800, F.A.C.]

C.11. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

C.12. Compliance Tests Required. Testing for demonstration of compliance, upon request, shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter. [Rule 62-297.310(4), F.A.C., and Rule 2.1201, JEPB]

C.13. Compliance Tests Prior To Renewal. Except as provided in subparagraph 62-297.310(8)(b)3., F.A.C. (see condition **TR7.b.(3)** in Appendix TR – Facility-wide Testing Requirements), compliance tests shall be performed for each Emissions Unit for Visible Emissions prior to obtaining a renewed operation permit to

demonstrate compliance with the emission limits in **Specific Condition C.5.** [Rules 62-210.300(2)(a) and 62-297.310(8)(b), F.A.C.]

{Permitting Note: Tests which are only required once during the term of a permit prior to obtaining a renewed permit should be performed roughly five years from the previous test.}

Recordkeeping and Reporting Requirements

C.14. Operation and Maintenance Plan. An Operation and Maintenance Plan for each emissions unit shall be attached to and shall be part of this permit. All activities shall be performed as scheduled and recorded. Data shall be made available to the Permitting Authority upon request. Records shall be maintained on file for a minimum period of five (5) years. [Rule 62-296.700(6), F.A.C., and Rule 2.1101, JEPB]

C.15. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C. and Rule 2.501, JEPB]

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
027	Combustion Turbine

A 97.7 x 10^6 Btu per hour Solar Mars gas fired turbine equipped with a 9.114 MW generator. The combustion turbine is subject to a determination of Prevention of Significant Deterioration (PSD-FL-115), and Best Available Control Technology (BACT) for nitrogen oxides.

{Permitting Note: This emission unit is regulated under 40 CFR 60 Subpart A - General Provisions; 40 CFR 60, Subpart GG – Standards of Performance for Stationary Gas Turbines}

Essential Potential to Emit (PTE) Parameters

D.1. Permitted Capacity. The maximum heat input shall not exceed 97.7 x 10^6 Btu per hour of natural gas corrected to ISO conditions (based on lower heating value as described in 40 CFR 60, Subpart GG). Natural gas consumption shall be limited to 106,970 cubic feet per hour corrected to ISO conditions. [Rules 62-4.160(2), 62-204.800, 62-210.200(PTE) Permit No. AC 16-119131 and Rule 2.301, JEPB]

D.2. Methods of Operation.

Fuels. The fuel that is allowed to be burned in this unit is natural gas.

[Rule 62-213.410, F.A.C. and Applicant's request in Title V permit renewal application received November 28, 2017]

D.3. Hours of Operation. This emissions unit may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C. and Rule 2.301, JEPB]

Emission Limitations and Standards

{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

Unless otherwise specified, the averaging times for Specific Conditions **D.5.-D.7.** are based on the specified averaging time of the applicable test method.

D.4. NO_X Emissions. Emissions of nitrogen oxides (NO_x) shall be limited as follows:

$$\mathbf{STD = 0.0150 \frac{(14.4)}{Y} + F}$$

Where:

STD = allowable NO_x emissions (percent by volume at 15 percent oxygen and on a dry basis).

Y = manufacturers' rated heat rate at manufacturers' rated peak load (kilojoules per watt hour), or actual measured heat rate based on lower heating value of fuel as measured at actual peak load for the facility. The value of Y shall not exceed 14.4 kilojoules per watt hour.

F = NO_x emission allowance for fuel-bound nitrogen as defined in the following:

F shall be defined according to the nitrogen content of the fuel

Fuel-bound nitrogen (percent by weight)	F (NO_x percent by volume)
N<0.015	0
0.015<N<0.1	0.04 (N)
0.1<N<0.25	0.004+0.0067 (N-0.1)

N>0.25…….. 0.005

Where: N = the nitrogen content of the fuel (percent by weight)

[40 CFR 60.332(a)(2), Rule 62-212.400(5), Rule 62-204.800(8) F.A.C., and Rule 2.201 and Rule 2.401, JEPB]

D.5. NO_X Emissions. Nitrogen oxide (NO_X) emissions shall not exceed 75.00 pounds per hour and 328.50 tons per year in accordance with the BACT Determination. [Rule 62-212.400(5), F.A.C., BACT Determination dated April 22, 1987 and Rule 2.401, JEPB]

D.6. SO_2 Emissions. Sulfur Dioxide (SO_2) emissions shall not exceed 0.015 percent by volume at 15 percent oxygen and on a dry basis. [40 CFR 60.333(a), Rule 62-204.800, F.A.C., and Rule 2.501, JEPB]

D.7. Visible Emissions (VE). VE shall not exceed 5 percent opacity in accordance with the BACT Determination. The required minimum period of observation for a visible emissions test shall be 30 minutes. [BACT Determination dated April 27, 1987; Rule 62-212.400(4), F.A.C., Rule 62-297.310(5)(b), F.A.C and Rule 2.401 and 2.1201 JEPB]

Test Methods and Procedures

{Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

D.8. Test Methods. When required, tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
9	Visual Determination of the Opacity of Emissions from Stationary Sources
20	Determination of Nitrogen Oxides, Sulfur Dioxide and Diluent Emissions from Stationary Gas Turbines

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rule 62-204.800, F.A.C.]

D.9. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

D.10. Annual Compliance Tests Required. During each calendar year (January 1st to December 31st), this Emission Unit shall be tested to demonstrate compliance with the emissions standards for Visible Emissions, Nitrogen Oxides and Sulfur Dioxides while burning natural gas. [Rule 62-297.310(8), F.A.C. and Rule 2.1201, JEPB]

D.11. NO_x Compliance. Compliance with NO_x emission rate in accordance with 40 CFR 60.335(b)(1) shall be computed for each run using the following equation:

$$NO_x = (NO_{xo})\,(P_r/P_o)^{0.5}\, e^{19(Ho-0.00633)}\,(288^o K/T_a)^{1.53}$$

Where:
NO_x = emission rate of NO_x at 15 percent oxygen and ISO standard ambient conditions, volume percent.
NO_{xo} = observed NO_x concentration, ppm by volume.
P_r = reference combustor inlet absolute pressure at 101.3 kilopascals ambient pressure, mm Hg.
P_o = observed combustor inlet absolute pressure at test, mm Hg.

H_o = observed humidity of ambient air, g H_2O/g air.
e = transcendental constant, 2.718.
T_a = ambient temperature, ^oK.

[BACT Determination dated April 27, 1987; 40 CFR 60.335; Rule 62-204.800, F.A.C.; and Rule 2.201, JEPB]

D.12. Fuel consumption shall be determined during each test run. All loads shall be corrected to ISO conditions using the appropriate equations supplied by the manufacturer in accordance with 40 CFR 60.335(b)(1). [BACT Determination dated April 27, 1987; 40 CFR 60.335; Rule 62-204.800, F.A.C.; and Rule 2.201, JEPB]

D.13. EPA RM 20 shall be used to determine the nitrogen oxides, sulfur dioxide, and oxygen concentrations. The span values shall be 300 ppm of nitrogen oxide and 21 percent oxygen. The nitrogen content of the fuel being fired during the compliance test shall be determined from a sample taken on or about the day of the compliance test in accordance with 40 CFR 335(b)(9). [40 CFR 60.335(a)(1), (b)(9,10,11); Rule 62.204.800, F.A.C., and Rule 2.201, JEPB]

D.14. Testing for demonstration of compliance shall be performed in accordance with 40 CFR 60.335. [40 CFR 60.335, Rule 62-204.800, F.A.C., and Rule 2201, JEPB]

D.15. The permittee has provided the manufacturer's curves or tables in ***Appendix TT*** to be used in determining the maximum heat input or fuel usage rate for compliance testing. These curves or tables relate compressor inlet conditions to heat input or fuel usage rate and are part of the permit. The data shall have a resolution of 1% of the maximum heat input or fuel usage rate. Inlet condition monitoring shall include compressor inlet temperature with optional monitoring of inlet pressure and/or moisture levels when these parameters are also used to correct heat input or fuel usage rate. [Permit No. AC16-119131 F.A.C., and Rule 2.1401, JEPB]

D.16. Compliance testing of emissions shall be conducted with the combustion turbine operating at capacity. Capacity is defined as 90-100 percent of the manufacturer's rated heat input achievable for the average compressor inlet conditions during the test. If it is impracticable to test at capacity, then combustion turbines may be tested at less than capacity. In such cases, the entire curve or table shall be adjusted downwards by the increment which reflects the reduced rate of operation at which compliance was demonstrated. This increment is equal to the difference between the manufacturer's heat input or fuel usage value and 110 percent of the value reached during the test. In this case, the data and calculations necessary to demonstrate the heat input or fuel usage rate correction shall be submitted to the Compliance Authority with the compliance test report. [Permit No. AC16-119131 and Rule 2.1401, JEPB; Rule 62-297.310(3), F.A.C., and Rule 2.1101, JEPB; 40 CFR 60.330, Rule 62-204.800, F.A.C., and Rule 2.201, JEPB]

D.17. To demonstrate compliance with 40 CFR 60.330 federal New Source Performance Standard (NSPS) Subpart GG - Standards of Performance for Stationary Gas Turbines, an initial test shall be conducted at four load points and corrected to International Standards Organization (ISO) conditions for comparison to the NSPS allowable. Subsequent annual compliance tests conducted to establish compliance with NOx limits that are more stringent than the NSPS standard shall not require an ISO correction or testing at four load points; rather, the testing shall be conducted at capacity, as defined above. However, when the Compliance Authority has reason to believe that NOx emissions exceed an applicable NOx standard (based on emissions data from CEMS or stack testing, or based on fuel quality) the Compliance Authority may require that the company conduct emissions testing at four loads as required in Subpart GG. [Permit No. AC16-119131 and Rule 2.1401, JEPB; Rule 62-297.310(3), F.A.C., and Rule 2.1101, JEPB; 40 CFR 60.335, Rule 62-204.800, F.A.C., and Rule 2.201, JEPB]

Recordkeeping and Reporting Requirements

D.18. The combustion turbine natural gas usage shall be metered and recorded daily. Data shall be maintained for a minimum of five (5) years and made available to the Permitting Authority upon request. [Rule 62-212.400(5), F.A.C., and Rule 2.401, JEPB]

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
028	Duct Burner & Heat Recovery Boiler

A 40.5 x 10 6 Btu per hour (maximum nameplate rated capacity) duct burner and heat recovery boiler fired by natural gas and biogas. The duct burner and heat recovery boiler is subject to a determination of Prevention of Significant Deterioration (PSD-FL-115), and BACT for nitrogen oxides.

{Permitting Note: This emission unit is regulated under Rule 62-210 F.A.C., Rule 62-212 F.A.C., BACT Determination dated April 22, 1987, Rule 62-213 F.A.C. and Rule 62-297 F.A.C.}

Essential Potential to Emit (PTE) Parameters

E.1. Permitted Capacity. The maximum allowable heat input rate is as follows:

Unit No.	MMBtu/hr Heat Input	Fuel Type
028	38.0	Natural Gas, Biogas

[Rules 62-4.160(2), 62-204.800, 62-210.200(PTE), 62-214.330, F.A.C.; Permit No. AC 29-119132 and BACT Determination dated April 27, 1987]

E.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(3), F.A.C.]

E.3. Methods of Operation.

Fuels. The fuels that are allowed to be burned in this units are:

(1) Natural gas,

(2) Biogas (generated by the anaerobic pretreatment facility).

[Rule 62-213.410, F.A.C., Permit No. AC 29-119132 and Applicant's request in Title V permit renewal application received November 28, 2017]

E.4. Biogas Production. The maximum production and burning of biogas for the facility shall not exceed 400 x 10^6 cubic feet per year. [Permit Nos. AC16-170993 through 170995; Avoid PSD, Rule 62-210.200, F.A.C., and Rule 2.301, JEPB]

E.5. Hours of Operation. This emissions unit may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C.; Permit No. AC 29-119132 and Rule 2.301, JEPB]

Emission Limitations and Standards

{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

Unless otherwise specified, the averaging times for Specific Conditions **E.6-E.10.** are based on the specified averaging time of the applicable test method.

E.6. Visible Emissions. Visible emissions shall not exceed 5 percent opacity. The required minimum period of observation for a visible emissions test shall be 30 minutes. [BACT Determination dated April 27, 1987; Rule 62-212.400(4), F.A.C., Rule 62-297.310(5)(b), F.A.C. and Rule 2.401, JEPB]

E.7. NO_X Emissions. Nitrogen oxide (NO_X) emissions shall not exceed 0.1 pound per 10^6 Btu heat input, 7.2 pounds per hour, and 20.8 tons per year in accordance with BACT Determination. [Permit Nos. AC16-

170993 through 170995; BACT Determination dated April 27, 1987; Rule 62-212.400(4), F.A.C. and Rule 2.401, JEPB]

E.8. PM Emissions. Particulate matter (PM) emissions shall not exceed 0.4 pound per hour, and 1.1 ton per year. [Permit Nos. AC16-170993 through 170995; Avoid PSD, Rule 62-212.300(1)(d), F.A.C., and Rule 2.401, JEPB]

E.9. CO Emissions. Carbon Monoxide (CO) emissions shall not exceed 21.7 pounds per hour, and 76.5 tons per year. [Permit Nos. AC16-170993 through 170995; Avoid PSD, Rule 62-212.300(1)(d), F.A.C., and Rule 2.401, JEPB]

E.10. VOC Emissions. Volatile Organic Compounds (VOC) emissions shall not exceed 1.6 pound per hour, and 3.7 tons per year. [Permit Nos. AC16-170993 through 170995; Avoid PSD, Rule 62-212.300(1)(d), F.A.C., and Rule 2.401, JEPB]

E.11. SO_2 Emissions. SO_2 emissions shall not exceed 28.9 pounds per hour, and 37.2 tons per year. [Permit Nos. AC16-170993 through 170995; Avoid PSD, Rule 62-212.300(1)(d), F.A.C., and Rule 2.401, JEPB]

Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

E.12. Excess Emissions Allowed- Startup, Shutdown, Malfunction. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted provided that (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C. and Rule 2.301, JEPB]

E.13. Excess Emissions Prohibited. Excess emissions that are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(1), F.A.C. and Rule 2.301, JEPB]

{Permitting note: After May 22, 2018, subsections 62-210.700(1) and (2), F.A.C. shall not apply to emission limits in Chapter 62-296, F.A.C., that have been or that become incorporated into the State Implementation Plan for the State of Florida, identified in 40 C.F.R. §52.520; and unit-specific emission limits that have been or that become incorporated into the State Implementation Plan for the State of Florida, identified in 40 C.F.R. §52.520.}

Test Methods and Procedures

{Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

E.14. Test Methods. When required, tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5	Method for Determining Particulate Matter Emissions (All PM is assumed to be PM_{10}.)
6	Determination of Sulfur Dioxide Emissions from Stationary Sources
7E	Determination of Nitrogen Oxide Emissions from Stationary Sources

Method	Description of Method and Comments
9	Visual Determination of the Opacity of Emissions from Stationary Sources
10	Determination of Carbon Monoxide Emissions from Stationary Sources {Note: The method shall be based on a continuous sampling train.}
25 or 25A	Method for Determining Gaseous Organic Concentrations (Flame Ionization)

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rule 62-204.800, F.A.C. and Permit Nos. AC16-170993 through 170995]

E.15. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C. and Rule 2.1201, JEPB]

E.16. Annual Compliance Tests Required. During each calendar year (January 1st to December 31st), each Emission Unit shall be tested to demonstrate compliance with the emissions standards for Visible Emissions and Nitrogen Oxides. Testing for demonstration of compliance shall be performed while firing biogas in accordance with EPA RM 7 or 20 (as described in 40 CFR 60, Appendix A) for nitrogen oxides. [Rule 62-297.310(8), F.A.C., Permit No. AC29-119132 and Rule 2.1401, JEPB]

E.17. Compliance Tests Required. Testing for demonstration of compliance with **Specific Condition E.8**, upon request, shall be performed in accordance with EPA Reference Method (RM) 5 (as described in 40 CFR 60, Appendix A) for particulate matter. [Rules 62-297.310(4), 62-297.401(5), F.A.C., and Rule 2.1201, JEPB]

E.18. Compliance Tests Required. Testing for demonstration of compliance with **Specific Condition E.9**, upon request, shall be performed while firing biogas in accordance with EPA RM 10 (as described in 40 CFR 60, Appendix A) for carbon monoxide. [Rules 62-297.310(4), 62-297.401(10), F.A.C., and Rule 2.1201, JEPB]

E.19. Compliance Tests Required. Testing for demonstration of compliance with **Specific Condition E.10**, upon request, shall be performed while firing biogas in accordance with EPA RM 25 or 25A (as described in 40 CFR 60, Appendix A) for volatile organic compounds. [Rules 62-297.310(4), 62-297.401(25), 62-297.401(25)(a), F.A.C., and Rule 2.1201, JEPB]

E.20. Compliance Tests Required. Testing for demonstration of compliance with **Specific Condition E.11**, upon request, shall be performed while firing biogas in accordance with EPA RM 6 (as described in 40 CFR 60, Appendix A) for sulfur dioxide. [Rule 62-297.310(4), 62-297.401(6), F.A.C., and Rule 2.1201, JEPB]

E.21. Special Compliance Tests. When the Department, after investigation, has good reason (such as complaints, increased visible emissions or questionable maintenance of control equipment) to believe that any applicable emission standard contained in a Department rule or in a permit issued pursuant to those rules is being violated, it shall require the owner or operator of the emissions unit to conduct compliance tests which identify the nature and quantity of pollutant emissions from the emissions unit, unless the Department obtains other information sufficient to demonstrate compliance. The owner or operator of the emissions unit shall provide a report on the results of said tests to the Department in accordance with the provisions of subsection 62-297.310(10), F.A.C. [Rule 62-297.310(8)(c), F.A.C. and Rule 2.1201, JEPB]

Recordkeeping and Reporting Requirements

E.22. Monthly Record Keeping. Monthly records shall be maintained for the following:

a. Cubic feet of natural gas fired

b. Cubic feet of biogas fired

Records shall be maintained for a minimum of five (5) years and made available to the Compliance Authority upon request. [Rule 62-213.440(1)(b), F.A.C., and Rule 2.501, JEPB]

E.23. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

The specific conditions in this section apply to the following emissions units:

EU No.	Brief Description
031	Biogas Flare
032	Backup Biogas Flare

The operation of a flare and backup flare for control of excess biogas production of the anaerobic pretreatment facility as a result of insufficient steam demand and mechanical malfunctions.

{Permitting Note: These emission units are regulated under Rule 62-210 F.A.C., Rule 62-213 F.A.C. and Rule 62-297 F.A.C.}

Essential Potential to Emit (PTE) Parameters

F.1. Permitted Capacity. The maximum allowable heat input rate is as follows:

Unit No.	MMBtu/hr Heat Input	Fuel Type
031	59.1	Biogas
032	59.1	Biogas

[Rules 62-4.160(2), 62-204.800, 62-210.200(PTE); and, Permit No. AC16-170994]

F.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(3), F.A.C.]

F.3. Methods of Operation- Fuels. The fuel that is allowed to be burned in these units is biogas (produced from the anaerobic pretreatment facility). [Rule 62-213.410, F.A.C.; Applicant's request in Title V permit renewal application received November 28, 2017; and Permit Nos. AC16-170994 and AC16-170993]

F.4. Biogas Combustion. The maximum biogas combustion shall not exceed 78,000 cubic feet per hour for each emission unit. [Permit No. AC16-170994; Rule 62-210.200, F.A.C., and Rule 2.301, JEPB]

F.5. Biogas Production. The maximum production and burning of biogas for the facility shall not exceed 400 x 10^6 cubic feet per year. [Permit No. AC16-170994; Rule 62-210.200, F.A.C., and Rule 2.301, JEPB]

F.6. Hours of Operation. These emissions units may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C.; and, Permit Nos. AC16-170994 and AC16-170993]

Emission Limitations and Standards

{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

Unless otherwise specified, the averaging time for **Specific Condition F.7.** is based on the specified averaging time of the applicable test method.

F.7. Visible Emissions. No visible emissions shall be allowed. Testing for demonstration of compliance shall be performed in accordance with EPA RM 22 for visible emissions. EU 031 is exempt from the provisions of **Appendix TR, Condition TR2.** [Permit Nos. AC16-170994 and AC16-170993]

Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

F.8. Excess Emissions Allowed. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted provided that (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C. and Rule 2.301, JEPB]

F.9. Excess Emissions Prohibited. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(1), F.A.C. and Rule 2.301, JEPB]

{Permitting note: After May 22, 2018, subsections 62-210.700(1) and (2), F.A.C. shall not apply to emission limits in Chapter 62-296, F.A.C., that have been or that become incorporated into the State Implementation Plan for the State of Florida, identified in 40 C.F.R. §52.520; and unit-specific emission limits that have been or that become incorporated into the State Implementation Plan for the State of Florida, identified in 40 C.F.R. §52.520.}

Test Methods and Procedures

{Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

F.10. Test Methods. When required, tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
22	Visual Determination of Fugitive Emissions

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rule 62-204.800, F.A.C., and, Permit Nos. AC16-170994 and AC16-170993]

F.11. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

F.12. Annual Compliance Tests Required. During each calendar year (January 1st to December 31st), each Emission Unit shall be tested to demonstrate compliance with the emissions standards for Visible Emissions. Testing for demonstration of compliance shall be performed in accordance with EPA RM 22 for visible emissions. EU 031 is exempt from the provisions of **Appendix TR, Condition TR2.** [Rule 62-297.310(8), F.A.C. and Rule 2.1201, JEPB]

Recordkeeping and Reporting Requirements

F.13. Biogas Fired Records. Monthly records shall be maintained for the cubic feet of biogas fired. Records shall be maintained for a minimum of five (5) years and made available to the Compliance Authority upon request. [Rule 62-213.440(1)(b), F.A.C., and Rule 2.501, JEPB]

F.14. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
033	H_2S Scrubber

The operation of a scrubber to control odor and hydrogen sulfide emissions from the anaerobic pretreatment facility reactor, and equalization tank.

{Permitting Note: This emission unit) is regulated under Rule 62-210 F.A.C., Rule 62-213 F.A.C. and Rule 62-297 F.A.C.}

Essential Potential to Emit (PTE) Parameters

G.1. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(3), F.A.C.]

G.2. Hours of Operation. This emissions unit may operate continuously (8,760 hours/year). [Rule 62-210.200(PTE), F.A.C.]

Emission Limitations and Standards

{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

Unless otherwise specified, the averaging time for Specific Condition G.3. is based on the specified averaging time of the applicable test method.

G.3. H_2S Emissions. Hydrogen Sulfide (H_2S) emissions shall not exceed 0.05 pounds per hour and 0.04 tons per year. Testing for demonstration of compliance shall be performed in accordance with EPA RM 15 (as described in 40 CFR 60, Appendix A) for hydrogen sulfides or an alternate test method approved by the Permitting Authority. [Rules 62-297.310(4), 62-297.401(15), F.A.C., Rule 2.1201, JEPB and Permit AC16-170993]

Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

G.4. Excess Emissions Allowed. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted provided that (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C.; Permit No. AC16-170993 and Rule 2.301, JEPB]

G.5. Excess Emissions Prohibited. Excess emissions which are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(1), F.A.C., Permit No. AC16-170993 and Rule 2.301, JEPB]

{Permitting note: After May 22, 2018, subsections 62-210.700(1) and (2), F.A.C. shall not apply to emission limits in Chapter 62-296, F.A.C., that have been or that become incorporated into the State Implementation Plan for the State of Florida, identified in 40 C.F.R. §52.520; and unit-specific emission limits that have been or that become incorporated into the State Implementation Plan for the State of Florida, identified in 40 C.F.R. §52.520.}

Test Methods and Procedures

{Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

G.6. Test Methods. When required, tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
15	Determination of Hydrogen Sulfide, Carbonyl Sulfide, and Carbon Disulfide Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rule 62-204.800, F.A.C., and, Permit No. AC16-170993]

G.7. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C. and Rule 2.1201 JEPB]

G.8. Compliance Tests Prior To Renewal. Except as provided in subparagraph 62-297.310(8)(b)3., F.A.C. (see condition **TR7.b.(3)** in Appendix TR – Facility-wide Testing Requirements), compliance tests shall be performed for H_2S prior to obtaining a renewed operation permit to demonstrate compliance with the emission limits in Specific Conditions **G.3.** [Rules 62-210.300(2)(a) and 62-297.310(8)(b), F.A.C. and Rule 2.1201 JEPB]

{Permitting Note: Tests which are only required once during the term of a permit prior to obtaining a renewed permit should be performed roughly five years from the previous test.}

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
035	Filter Media Storage Silos

The operation of two (2) filter media storage silos. Diatomaceous Earth and Perlite are used as filter media at the brewery's water treatment facility.

Particulate matter (PM) control device - Two (2) MAC Model 72AVS25II Dust Collectors

{Permitting Note: This emission unit is regulated under Rule 62-210 F.A.C., Rule 62-213 F.A.C. and Rule 62-297 F.A.C.}

Essential Potential to Emit (PTE) Parameters

H.1. Permitted Capacity. The maximum process rate shall not exceed 40,000 pounds per hour for each silo. [Rules 62-4.160(2), 62-204.800, 62-210.200(PTE) and Permit No. 0310006-008-AC.]

H.2. Emissions Unit Operating Rate Limitation After Testing. See the related testing provisions in Appendix TR, Facility-wide Testing Requirements. [Rule 62-297.310(3), F.A.C. and Rule 2.1201, JEPB]

H.3. Volumetric Flow Rate. The nominal volumetric flow rate from this emissions unit is 1,300 cubic feet per minute for each silo. [Permit No. 0310006-008-AC; Rule 62-210.200(PTE), F.A.C., and Rule 2.301, JEPB]

H.4. Hours of Operation. This emissions unit may operate continuously (8,760 hours/year) for each silo. [Rule 62-210.200(PTE), F.A.C., Permit No. 0310006-008-AC and Rule 2.301, JEPB]

Emission Limitations and Standards

{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

Unless otherwise specified, the averaging times for **Specific Conditions H.6-H.7.** are based on the specified averaging time of the applicable test method.

H.5. Reasonably Available Control Technology (RACT) requirements including **Specific RACT Emission Limiting Standards for Stationary Emission Units** [Rule 62-296.700(3), F.A.C., and Rule 2.1101, JEPB]; **Maximum Allowable Emission Rates** [Rule 62-296.700(4), F.A.C., and Rule 2.1101, JEPB]; **Circumvention** [Rule 62-296.700(5), F.A.C., and Rule 2.1101, JEPB], and **Operation and Maintenance Plan** [Rule 62-296.700(6), F.A.C., and Rule 2.1101, JEPB] shall apply to this emissions unit.

H.6. Visible Emissions. Visible emissions from each silo shall not exceed 5 percent opacity. The required minimum period of observation for a visible emissions test shall be 30 minutes except that for batch, cyclical processes, or other operations that are typically completed within less than the minimum observation period. [Permit No. 0310006-008-AC, Rule 62-296.711(2)(a), F.A.C., Rule 62-204.800, F.A.C., Rule 62-297.310(5)(b), F.A.C. and Rule 2.1101, 1201 and 2.201, JEPB]

H.7. PM Emissions. Particulate matter (PM) emissions from each silo shall not exceed 0.03 grains per dry standard cubic foot and 0.33 pounds per hour and 1.46 tons per year. [Permit No. 0310006-008-AC, Rule 62-296.711(2)(b), F.A.C., Rule 62-204.800, F.A.C. and Rule 2.1101 and 2.201, JEPB]

Excess Emissions

Rule 62-210.700 (Excess Emissions), F.A.C. cannot vary any requirement of an NSPS, NESHAP or Acid Rain program provision.

H.8. Excess Emissions Allowed. Excess emissions resulting from startup, shutdown or malfunction of any emissions unit shall be permitted provided that (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized but in no case exceed two hours in any 24 hour period unless specifically authorized by the Department for longer duration. [Rule 62-210.700(1), F.A.C., Permit No. 0310006-008-AC and Rule 2.301, JEPB]

H.9. Excess Emissions Prohibited. Excess emissions that are caused entirely or in part by poor maintenance, poor operation, or any other equipment or process failure which may reasonably be prevented during startup, shutdown or malfunction shall be prohibited. [Rule 62-210.700(1), F.A.C., Permit No. 0310006-008-AC and Rule 2.301, JEPB]

{Permitting note: After May 22, 2018, subsections 62-210.700(1) and (2), F.A.C. shall not apply to emission limits in Chapter 62-296, F.A.C., that have been or that become incorporated into the State Implementation Plan for the State of Florida, identified in 40 C.F.R. §52.520; and unit-specific emission limits that have been or that become incorporated into the State Implementation Plan for the State of Florida, identified in 40 C.F.R. §52.520.}

Test Methods and Procedures

{Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

H.10. Test Methods. When required, tests shall be performed in accordance with the following reference methods:

Method	Description of Method and Comments
1-4	Traverse Points, Velocity and Flow Rate, Gas Analysis, and Moisture Content
5B	Method for Determining Particulate Matter Emissions (All PM is assumed to be PM_{10}.)
9	Visual Determination of the Opacity of Emissions from Stationary Sources

The above methods are described in 40 CFR 60, Appendix A, and adopted by reference in Rule 62-204.800, F.A.C. No other methods may be used unless prior written approval is received from the Department. [Rule 62-204.800, F.A.C., and Permit No. 0310006-008-AC]

H.11. Common Testing Requirements. Unless otherwise specified, tests shall be conducted in accordance with the requirements and procedures specified in Appendix TR, Facility-Wide Testing Requirements, of this permit. [Rule 62-297.310, F.A.C.]

H.12. Compliance Tests Required. Testing of each silo for demonstration of compliance with **Specific Condition H.7**, upon request, shall be performed in accordance with EPA RM 5 (as described in 40 CFR 60, Appendix A) for particulate matter. [Rule 62-297.310(4), F.A.C., and Rule 2.1201, JEPB]

H.13. Compliance Tests Prior To Renewal. Except as provided in subparagraph 62-297.310(8)(b)3., F.A.C. (see condition **TR7.b.(3)** in Appendix TR – Facility-wide Testing Requirements), compliance tests shall be performed for each silo for Visible Emissions prior to obtaining a renewed operation permit to demonstrate compliance with the emission limits in **Specific Condition H.6.** [Rules 62-210.300(2)(a) and 62-297.310(8)(b), F.A.C.]

{Permitting Note: Tests which are only required once during the term of a permit prior to obtaining a renewed permit should be performed roughly five years from the previous test.}

Recordkeeping and Reporting Requirements

H.14. Operation and Maintenance Plan. An Operation and Maintenance Plan shall be attached to and shall be part of this permit. All activities shall be performed as scheduled and recorded. Data shall be made available to the Permitting Authority upon request. Records shall be maintained on file for a minimum period of five (5) years. [Rule 62-296.700(6), F.A.C., and Rule 2.1101, JEPB]

H.15. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]

The specific conditions in this section apply to the following emissions unit:

EU No.	Brief Description
038	Four (4) Emergency Stationary RICE

Description of Engine	Year Built	Model Number	Horsepower	Rule Applicability
415 kW Caterpillar Diesel Generator, BERS Influent Lift Station	1987	D343	285 HP	40 CFR Part 63, Subpart ZZZZ
750 kW Cummins Diesel Generator	2002	DFHA-4961501	1030 HP	40 CFR Part 63, Subpart ZZZZ
Diesel Fire Pump	1968	7084-7010	269 HP	40 CFR Part 63, Subpart ZZZZ
Waste Water Influent Diesel Pump	Prior to 2006	1113-216	100 HP	40 CFR Part 63, Subpart ZZZZ

{**Permitting Note:** This permit section addresses existing, emergency compression ignition (CI) reciprocating internal combustion engines (RICE) located at an area source of HAP emissions.}

{Permitting Note: This emission unit is regulated under 40 CFR 63, Subpart ZZZZ – National Emissions Standards for Hazardous Air Pollutants for Stationary Reciprocating Internal Combustion Engines and Subpart A, General Provisions}

Essential Potential to Emit (PTE) Parameters

I.1. Hours of Operation. The permittee shall operate and maintain the emergency stationary RICE according to the following:

a. There is no time limit on the use of emergency stationary RICE in emergency situations.

b. The emergency stationary RICE may be operated for the purpose of maintenance checks and readiness testing, provided that the tests are recommended by Federal, State or Local government, the manufacturer, the vendor, or the insurance company associated with the engine. Maintenance checks and readiness testing of such units is limited to 100 hours per year.

c. The emergency stationary RICE may be operated up to 50 hours per year in non-emergency situations, but those 50 hours are counted towards the 100 hours per year provided for maintenance checks and readiness testing.

d. The 50 hours per year for non-emergency situations may not be used for peak shaving or to generate income for a facility to supply power to an electric grid or otherwise supply non-emergency power as part of a financial arrangement with another entity. [40 CFR 63.6640(f), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

I.2. Engine Startup. The permittee shall minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes. [40 CFR 63.6625(h), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

Emission Limitations and Operating Requirements

{Permitting Note: The attached Table 1, Summary of Air Pollutant Standards, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

I.3. The permittee shall comply with the following requirements as outlined in 40 CFR 63, Subpart ZZZZ, Table 2d for each RICE.

a. Change oil and filter every 500 hours of operation or annually, whichever comes first, or use an oil analysis program to extend this interval, as provided in **Specific Condition I.4** below.

b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first.

c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary. [40 CFR 63.6603(a), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

I.4. Oil Analysis Program Option. The permittee has the option of using an oil analysis program to extend the oil change requirement. The oil analysis shall be performed at the same frequency specified for changing the oil in **Specific Condition I.3** for this emissions unit. The analysis program shall at a minimum analyze the following three parameters: Total Base Number, viscosity, and percent water content. The condemning limits for these parameters are as follows: Total Base Number is less than 30 percent of the Total Base Number of the oil when new; viscosity of the oil has changed by more than 20 percent from the viscosity of the oil when new; or percent water content (by volume) is greater than 0.5. If all of these condemning limits are not exceeded, the engine owner or operator is not required to change the oil. If any of the limits are exceeded, the engine owner or operator shall change the oil within 2 days of receiving the results of the analysis; if the engine is not in operation when the results of the analysis are received, the engine owner or operator shall change the oil within 2 days or before commencing operation, whichever is later. The permittee shall keep records of the parameters that are analyzed as part of the program, the results of the analysis, and the oil changes for the engine. The analysis program shall be part of the maintenance plan for the engine. [40 CFR 63.6625(i), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

I.5. The permittee shall operate and maintain the stationary RICE according to the manufacturer's emission-related operation and maintenance instructions or develop and follow their own maintenance plan which shall provide, to the extent practicable, for the maintenance and operation of the engine in a manner consistent with good air pollution control practices for minimizing emissions. [40 CFR 63.6640(a), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

Monitoring of Operations

I.6. Hour Meter. The permittee shall install a non-resettable hour meter if one is not already installed. [40 CFR 63.6625(f), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

Compliance Requirements

{Permitting Note: The attached Table 2, Summary of Compliance Requirements, summarizes information for convenience purposes only. This table does not supersede any of the terms or conditions of this permit.}

I.7. Continuous Compliance. Each unit shall be in compliance with the operating standards in this section at all times. [40 CFR 63.6605(a), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

I.8. Operation and Maintenance of Equipment. At all times, the permittee shall operate and maintain the stationary RICE, including associated air pollution control equipment and monitoring equipment, in a manner consistent with safety and good air pollution control practices for minimizing emissions. Determination of whether such operation and maintenance procedures are being used will be based on information available to the Compliance Authority which may include, but is not limited to, monitoring results, review of operation and

maintenance procedures, review of operation and maintenance records, and inspection of the source. [40 CFR 63.6605(b), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

Recordkeeping and Reporting Requirements

I.9. The permittee shall keep records of the maintenance conducted on the stationary RICE in order to demonstrate that the stationary RICE and after-treatment control device (if any) was operated and maintained according to their own maintenance plan. [40 CFR 63.6655(e), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

I.10. The permittee shall keep records of the hours of operation of the engine that is recorded through the non-resettable hour meter. The permittee shall document how many hours are spent for emergency operation, including what classified the operation as emergency and how many hours are spent for non-emergency operation. If the engines are used for demand response operation, The permittee shall keep records of the notification of the emergency situation, and the time the engine was operated as part of demand response. [40 CFR 63.6655(f), Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

I.11. The records in Specific Condition **I.9** and **I.10** for this emissions unit shall be kept and maintained for a minimum period of five (5) years following the date of each occurrence, measurement, maintenance, corrective action, report, or record. Records shall be provided to the Compliance Authority upon request. [40 CFR 63.6660, Rule 62-204.800(11), F.A.C. and Rule 2.201, JEPB]

I.12. Other Reporting Requirements. See Appendix RR, Facility-Wide Reporting Requirements, for additional reporting requirements. [Rule 62-213.440(1)(b), F.A.C.]